

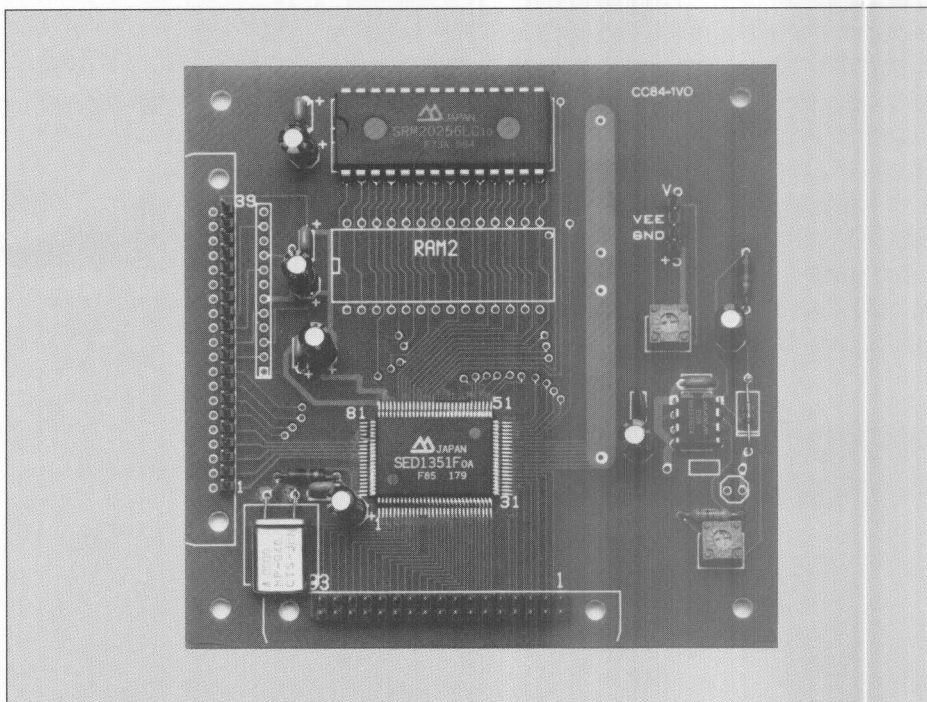
GRAPHIC CONTROLLER INTERFACE FOR FLAT PANEL DISPLAYS MODEL DBC-01

CATALOG NO. DBC

The DBC-01 is a graphics controller interface card designed to be used with Densitron's flat panel LCD modules. This card can operate LCD formats up to 1,024x2,048 dot resolution.

A variable negative voltage generator combined with on-board contrast control simplifies the interface to large graphic displays. The card allows several levels of gray scaling to accommodate the use of color application software. There is a simple jumper array connector which allows selection of various sized LCD models.

The card generates a high refresh rate which provides sharp and flicker-free images. Text and graphics information can be displayed simultaneously.



FEATURES

- Supports gray scaling capability (4 levels)
- Current displays supported: 200x320, 200x640, 400x640 and 480x640
- Direct ribbon cable connection to Densitron LCD modules
- Easy interface to most 8-bit microprocessors and microcontrollers
- Compact board size (4"x4")
- Multiple screen operation
- Smooth scrolling
- Multiple screen overlay

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APPLICATION BENEFITS

- Minimizes hardware development
- Allows multiple displays to be operated simultaneously
- Provides a cost-effective solution to microprocessor controlled applications

ENVIRONMENTAL SPECIFICATIONS

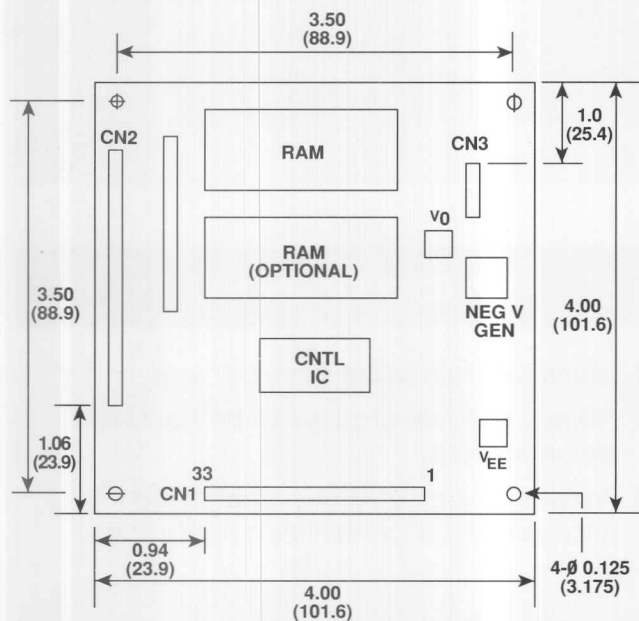
- Power consumption:
less than 1/4W (without display)
- Operating temperature:
0°C to +55°C
- Storage temperature:
-20°C to +75°C
- Humidity:
0 to 95% non-condensing

SPECIFICATIONS

HARDWARE DESCRIPTION

The DBC-01 data bus controller is designed around the powerful VLSI SED 1351F LCD controller chip. The card has up to 64Kbytes of video RAM which will operate flat panel displays with 1,024x2,048 dot resolution. The card provides all necessary display scan and refresh signals for LCD panels. Model DBC-01 can be memory mapped into any 8-bit data bus microprocessor system. LCD contrast may be adjusted either by the on-board or an external potentiometer.

MECHANICAL DRAWING



FRONT VIEW (Component Side)

Notes:

CN1: Host connector
CN2: LCD connector
CN3: Power connector

All dimensions are in inches.
Dimensions in parenthesis are in millimeters.
All specifications are subject to change without notice.

OPTIONAL ACCESSORIES

- DBC-CBLE01—cable adapter for DBC-01 to LCD connection; fits all LCD models with 200x320, 400x640 and 480x640 formats
- Negative voltage converter

ORDERING INFORMATION

Data Bus Controller Model

DENSITRON LCD Formats

DBC-01-8K0

(without on-board negative voltage generator)

200x320 resolution

DBC-01-8KN

(with on-board negative voltage generator)

200x320 resolution

DBC-01-32K0

(without on-board negative voltage generator)

200x640 resolution (2)
400x640 resolution

DBC-01-32KN

(with on-board negative voltage generator)

200x640 resolution (2)
400x640 resolution

DBC-01-64K0

(without on-board negative voltage generator)

480x640 resolution
200x320 resolution (1)
200x640 resolution (3)
400x640 resolution (2)

DBC-01-64KN

(with on-board negative voltage generator)

480x640 resolution
200x320 resolution (1)
200x640 resolution (3)
400x640 resolution (2)

NOTES: (1) stores up to 8 different memory pages
(2) stores up to 2 different memory pages
(3) stores up to 4 different memory pages



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